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Epson B-508DN Network Guide

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Safety Instructions

Warnings, Cautions, and Notes

Warnings
must be followed carefully to avoid bodily injury.

Cautions
must be observed to avoid damage to your equipment.

Notes
contain important information and useful tips on the operation of your printer.

Chapter 1

Introduction

About Your Printer

® Windows® applications.

Use the Software CD-ROM that came with the printer to easily configure the network interface for use on the TCP/IP network and install the printer driver.

If you want to configure the network interface for protocols such as TCP/IP and SNMP, use EpsonNet Config, the configuration utility provided with your product, to quickly and easily configure the network interface to use those protocols.

Note:
The EpsonNet Config utility configures the network interface to work only with protocols that exist on your network. This does not imply that you can use all of the above-mentioned protocols on your network or operating system. The protocols that the network interface can use may vary depending on the operating system and the network configuration.

About This Guide

Network Guide

User's Guide

- *To read the online guide, you must have Adobe® Reader® or Adobe Acrobat® Reader installed on your computer.*
- *This guide is written for network administrators, and many of the steps included here require detailed network knowledge and administrator rights.*
- *The term "network administrator" refers to the person responsible for maintaining the network. "Administrator" is synonymous with "Supervisor" in this guide.*
- *The term "network interface" refers to the built-in Ethernet interface of the printer in this guide.*

Operating Environment

OS	Protocol
Windows Vista® Windows XP (Home, Professional) Windows 2000 (Professional) Windows Server 2003	TCP/IP (using LPR, Standard TCP/IP Port, or EpsonNet Print)

Features of the Network Interface

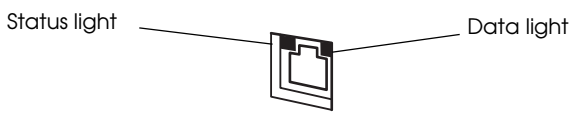
- ❏ Connects your Epson printer using a built-in Ethernet interface, which is called the network interface in this manual, to the network.
- ❏ Supports the TCP/IP protocol.
- ❏ Supports both 10Base-T and 100Base-TX.
- ❏ Supports DHCP.
- ❏ Supports Automatic Private IP Addressing (APIPA) that assigns an IP address automatically to the network interface even if there is no DHCP server on the network.
- ❏ Supports the Dynamic DNS function.
- ❏ Supports SNMP and MIB.
- ❏ Supports SNTP (Simple Network Time Protocol).

Network Interface Operation

Status Light

The indicator lights provide you with important information on the operations of the network interface.

Status light	Data light	Network Status
Green	Green	Ready (10 M link)
Green	Green (Flashing)	Receiving packets (10 M link)
Orange	Green	Ready (100 M link)
Orange	Green (Flashing)	Receiving packets (100 M link)



The status light on the left side indicates whether the network interface is connected to 10Base-T or 100Base-TX. The light is orange when the connection is 100Base-TX, green when the connection is 10Base-T.

The data light on the right side flashes when the host interface receives data.

If the light on the left side is solid green and the light on the right side is off, the connection is disconnected.

Network Connector

RJ-45 connector: This connector is used to connect an Ethernet cable to a network. You can use this cable for both 10Base-T and 100Base-TX. (On some models, 1000Base-T is also supported.)

You must use a category-5 shielded twisted-pair cable to connect the network interface to a network.

About the Software

The Software CD-ROM provided with your printer includes the following network software.

The software provided varies depending on your printer model.

- ❏ EpsonNet Config is a Windows-based configuration utility for administrators that allows you to configure the network interface for various protocols such as TCP/IP and SNMP. See "EpsonNet Config" on page 38.
- ❏ EpsonNet Print is a utility that enables TCP/IP printing for Windows. (Windows Vista/XP/Server 2003/2000/also support OS standard LPR printing.) See "EpsonNet Print" on page 39.

Terms and Concepts

Configuration -- a prepared set of conditions for proper operation of a device. Configuring the network interface is to prepare it to work with protocols available on a network.

DHCP -- a dynamic host configuration protocol. It is a protocol that assigns dynamic IP addresses to devices on a network.

ftp -- a TCP/IP application protocol for file transfer

lpd -- a TCP/IP remote printing protocol application

Print queue -- a location where a print job is stored as a file, until the network interface sends the job to the assigned printer

Protocol -- a rule that controls how data or information is exchanged through a network. Computers and software cannot communicate with each other using different protocols.

TCP/IP -- Transmission Control Protocol/Internet Protocol, a layer of protocols that provides communication between nodes on a network

Chapter 2

How To

Overview

This section describes the general procedure on how to set up the network interface for use on a network.

1. Check the network interface operation.

   Check the functions and operations of the network interface, such as status lights and RJ-45 connector. See "Network Interface Operation" on page 9 for details.

2. Select a printing method.

   Select a printing method appropriate for your network environment and operating system. If you are not sure, see "Selecting a Printing Method" on page 13 for details.

3. Install the necessary components on your computer.

   Make sure the necessary components (such as TCP/IP) are installed on the computer, and network settings (such as IP address, subnet mask, etc.) of the computer is set. See "About Installing Components on Your Computer" on page 14 for details.

4. Connect the network interface to the network.

   Connect the network interface to the network. See "Connecting the Network Interface to the Network" on page 21 for details.

5. Configure the network interface and install the printer driver on all the computers that will use the printer.

   See "Configuring the Network Interface" on page 22 for details.

6. If necessary, configure the network settings of the network interface using EpsonNet Config.

   Configure the network interface for TCP/IP, MS Network, etc. using EpsonNet Config. See "About EpsonNet Config" on page 38.

Selecting a Printing Method

Check if there is a Windows Vista/XP/Server 2003/2000 print server on your network, and then use the suggestions below.

If a print server exists, set the printer to connect with LPR on the server and turn it into a shared printer. Your clients can then print to this shared printer.

If no Windows print server exists, we recommend TCP/IP printing via LPR. This is the method to use when you connect the printer to your network through the printer's Ethernet port. See "Windows Vista" on page 26, "Windows XP" on page 29, "Windows Server 2003" on page 32, or "Windows 2000" on page 35.

Printing Method Features

This section describes features of the printing methods available for you to choose.

LPR (TCP/IP) printing for Ethernet connection

Advantages

- ❏ No computer as a network interface is required.
- ❏ No special utility for Windows Vista/XP/Server 2003/2000 is required.
- ❏ You can see the printer status using EPSON Status Monitor.
- ❏ For Windows Vista/XP/Server 2003/2000, you can create a print log using the event viewer.
- ❏ You can print via a router.

Disadvantages

- ❏ You need to set up TCP/IP.

Microsoft Network Shared printing

Advantages

- ❏ Easy to set up.
- ❏ No computer as a network interface is required.
- ❏ No special print utility is required.

Disadvantages

- ❏ Epson Status Monitor cannot be used.
- ❏ You cannot print via a router.
- ❏ It takes longer to start printing because more time is required to search for a network printer.

Instructions for setting up Microsoft network shared printing are included in the printer User's Guide.

Installing Components on Your Computer

About Installing Components on Your Computer

Before configuring the network interface and printing from the computer, you need to install the necessary components (such as TCP/IP) and assign an IP address and subnet mask for your computer, depending on the printing method you want to use. See the section in this chapter appropriate for your operating system.

- ❏ *The Windows operating system CD-ROM may be required during the installation.*
- ❏ *When using TCP/IP for printing, you need to set the IP address, the subnet mask, and the default gateway of the computer. These may be set automatically if your network uses DHCP.*

Windows Vista

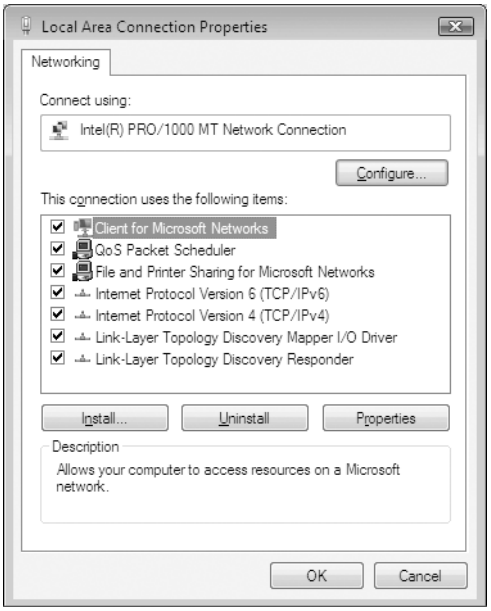
For Windows Vista, use the following procedure to install the necessary components.

1. Click **Start**, click **Control Panel**, and then click **View network status and tasks** or double-click **Network and Sharing Center**.

2. Click **View Status**, and then click the **Properties** button.

   *If the User Account Control screen appears, click the **Continue** button.*

3. Check if the following necessary components are in the list. If they are already installed, go to the next chapter.



   The following table lists the components required for configuring the network interface with EpsonNet Config.

EpsonNet Config's setting screens	Necessary components

   The following table lists the components required for network printing.

Printing method	Necessary components

4. If the necessary components are not in the list, click **Install** to install them, as described below.

   For LPR or Internet printing:
   Internet Protocol (TCP/IP) is installed by default. You cannot add or delete it.

5. For LPR or Internet printing:
   Double-click **Internet Protocol Version 4 (TCP/IPv4)** on the Local Area Connection Properties dialog box to open the Internet Protocols Version 4 (TCP/IPv4) Properties dialog box. Set the IP address and so on if necessary, then click **OK**.

6. Restart the computer.

The necessary components are now installed. Go to the section "Connecting the Network Interface to the Network" on page 21.

Windows XP

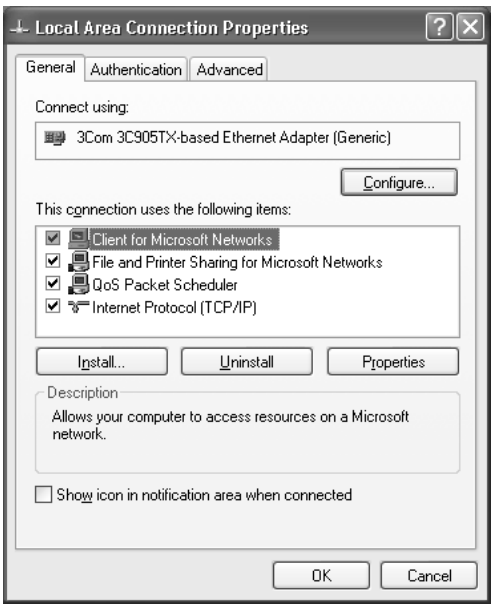
For Windows XP, use the following procedure to install the necessary components.

1. Click **Start**, highlight **Control Panel**, and then click **Network and Internet Connections**. Select **Network Connections**.

2. Under **LAN or High-Speed Internet**, click the **Local Area Connection** icon.

3. Under **Network Tasks**, click **Change settings of this connection**.

4. Check if the following necessary components are in the list. If they are already installed, go to the next chapter.



The following table lists the components required for configuring the network interface with EpsonNet Config.

EpsonNet Config's setting screens	Necessary components

The following table lists the components required for network printing.

Printing method	Necessary components

5. If the necessary components are not in the list, click **Install** to install them, as described below.

   For LPR:
   Internet Protocol (TCP/IP) is installed by default. You cannot add or delete it.

   For Microsoft Network Shared printing:
   Select **Client** and then click **Add**. Select **Client for Microsoft Networks** and then click **OK**.

6. For LPR or Microsoft Network Shared printing:
   Double-click **Internet Protocol (TCP/IP)** on the Local Area Connection Properties dialog box to open the Internet Protocols (TCP/IP) Properties dialog box. Set the IP address and so on if necessary, then click **OK**.

7. Restart the computer.

The necessary components are now installed. Go to the section "Connecting the Network Interface to the Network" on page 21.

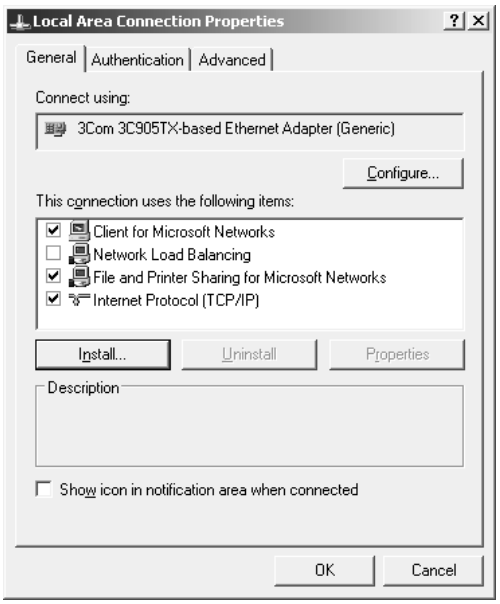
Windows Server 2003

For Windows Server 2003, use the following procedure to install the necessary components.

1. Click **Start**, point to **Control Panel**, and then select **Network Connections**. Click **Local Area Connections**.

2. Click the **Properties** button.

3. Check if the following necessary components are in the list. If they are already installed, go to the next chapter.



The following table lists the components required for configuring the network interface with EpsonNet Config.

EpsonNet Config's setting screens	Necessary components

The following table lists the components required for network printing.

Printing method	Necessary components

4. If the necessary components are not in the list, click **Install** to install them, as described below.

   For LPR:
   Internet Protocol (TCP/IP) is installed by default. You cannot add or delete it.

   For Microsoft Network Shared printing:
   Select **Client** and then click **Add**. Select **Client for Microsoft Networks** and then click **OK**.

5. For LPR or Microsoft Network Shared printing:
   Double-click **Internet Protocol (TCP/IP)** on the Local Area Connection Properties dialog box to open the Internet Protocols (TCP/IP) Properties dialog box. Set the IP address and so on if necessary, then click **OK**.

6. Restart the computer.

The necessary components are now installed. Go to the section "Connecting the Network Interface to the Network" on page 21.

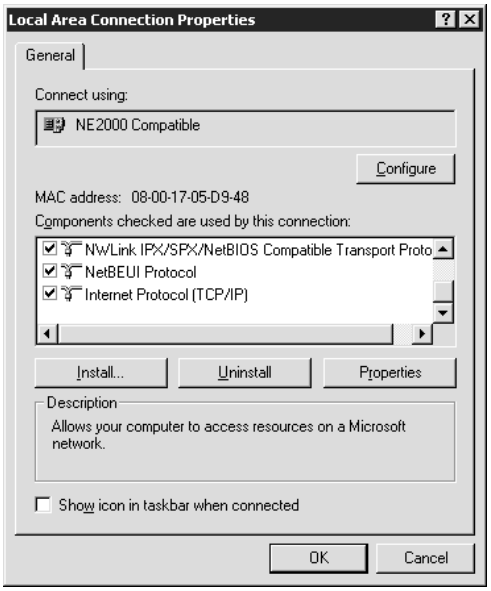
Windows 2000

For Windows 2000, use the following procedure to install the necessary components.

1. Click **Start**, point to **Settings**, and then select **Network and Dial-up Connections**. The Network and Dial-up Connections screen appears.

2. Right-click the desired network connection and then select **Properties**.

3. Check if the following necessary components are in the list. If they are already installed, go to the next chapter.



The following table lists the components required for configuring the network interface with EpsonNet Config.

EpsonNet Config's setting screens	Necessary components

The following table lists the components required for network printing.

Printing method	Necessary components

4. If the necessary components are not in the list, click **Install** to install them, as described below.

   For LPR:
   Select **Protocol** and then click **Add**. In the Select Network Protocol dialog box, select **Internet Protocol (TCP/IP)** and then click **OK**.

   For Microsoft Network Shared printing:
   To use Internet Protocol, see the description described earlier to install Internet Protocol (TCP/IP).
   Select **Client** and then click **Add**. Select **Client for Microsoft Networks** and then click **OK**.

5. For LPR or Microsoft Network Shared printing:
   Double-click **Internet Protocol (TCP/IP)** on the Configuration menu to open the TCP/IP Properties dialog box. Set the IP address and so on if necessary, then click **OK**.

6. Restart the computer.

The necessary components are now installed. Go to the next section.

Setting Up the Network Interface

Connecting the Network Interface to the Network

Follow the instructions below to connect the network interface to the network. For more information, see the *Start Here* sheet that came with your printer.

1. Make sure that your printer is turned off.

2. Connect one end of the network cable to the RJ-45 connector on the network interface, and the other end to the network.

   - ❏ *You must use a Category 5 shielded twisted-pair cable to connect the network interface to prevent malfunction.*
   - ❏ *Do not connect or disconnect the network cable when the printer is on.*
   - ❏ *Do not connect the network interface and the computer directly. Be sure to use a HUB to connect the network interface to the network.*

   You can use both 10Base-T and 100Base-TX. When you print a lot of data, we recommend you use a higher speed with light network traffic.

3. Turn on your printer. After the status lights go off, print a network status sheet.

   After turning off the printer, wait until the status lights go off before turning it back on; otherwise the network interface may not work correctly.

Now, you can configure the network interface to use on the TCP/IP network and also install the printer driver. See the next section.

Configuring the Network Interface

Configure the network interface for use on the TCP/IP network and install the printer driver on your computer.

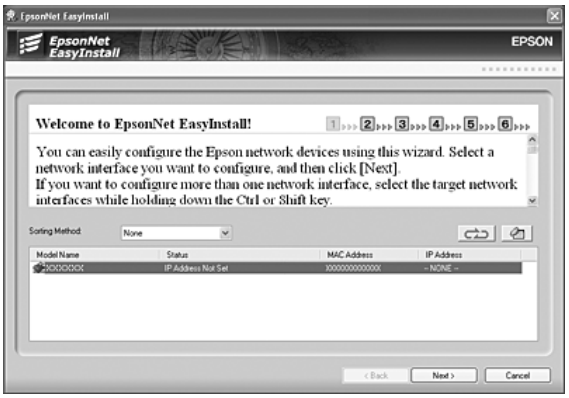
1. Insert the Software CD-ROM in the CD-ROM drive.
2. The Software Installation screen opens automatically.

   If the Software Installation screen does not appear, double-click **EPSETUP.EXE** on the CD-ROM.
3. Click **User Installation** if it appears.
4. Make sure that all applications are closed, and then click the **Easy Install** button.
5. Select **Network**.

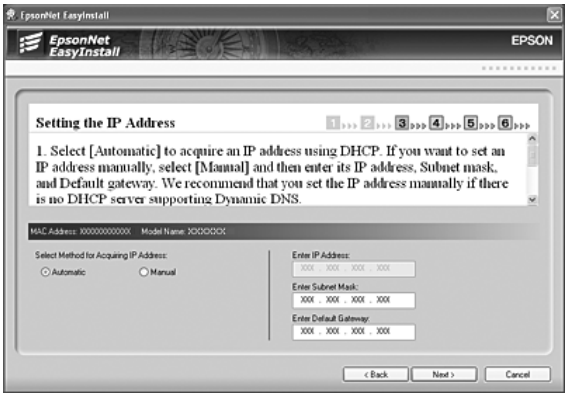
   *If your printer is connected to your computer with a USB cable, select **Local**. Then follow the on-screen instructions.*
6. Click the **Install** button and follow the on-screen instructions.

   *If the Windows Security Alert window appears, click the **Unblock** button; otherwise the printer is not listed on the screen of EpsonNet EasyInstall.*

7. EpsonNet EasyInstall starts. Select the printer and then click the **Next** button.

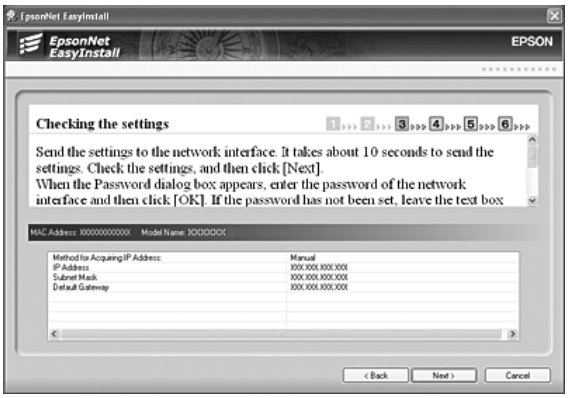


8. If you see the following screen, you can select a method for specifying the IP address. If you select **Automatic**, DHCP becomes available and assigns an IP address automatically. If you want to set the IP address manually, select **Manual** and then enter the IP address, subnet mask, and default gateway. Click the **Next** button.

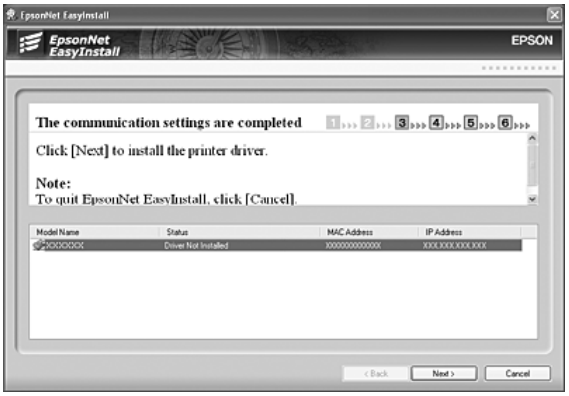


It's a good idea to write down the IP address for use when you set up additional computers.

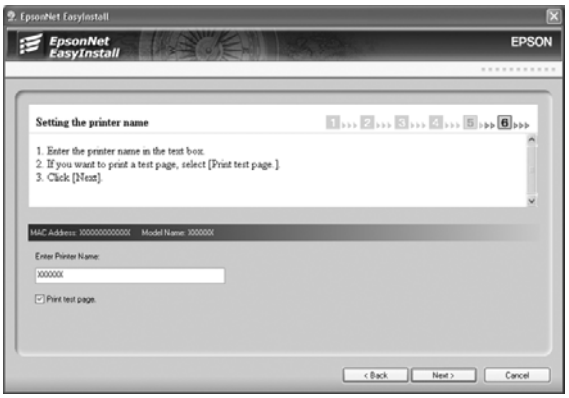
9. Confirm the settings you have made, and then click the **Next** button.



10. Select the printer with its IP address you have just set, and then click the **Next** button to install the printer driver.

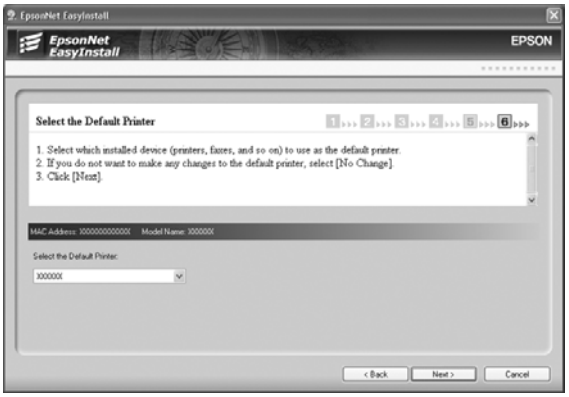


11. Enter the printer name. If you want to print a test page, select the **Print test page** check box. Click the **Next** button.

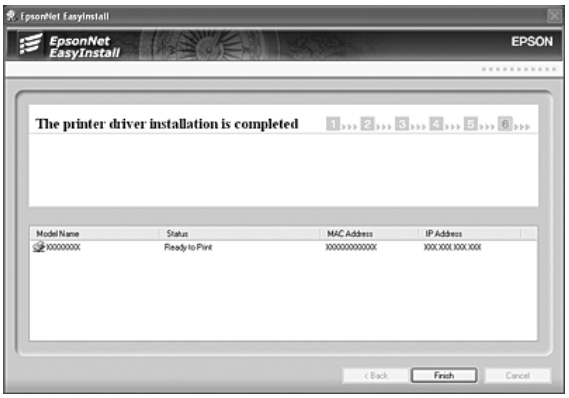


If the Windows Security Alert window appears, click the ***Unblock*** *button.*

12. Select the default printer, and then click the **Next** button.



13. Click the **Finish** button, and then follow the on-screen instructions to complete the installation.



Now you can use the printer on the TCP/IP network.

Installing the Printer Driver

About Installing the Printer Driver

To print to the network printer, you need to install the printer driver on all your network computers. See the section in this chapter appropriate for your operating system.

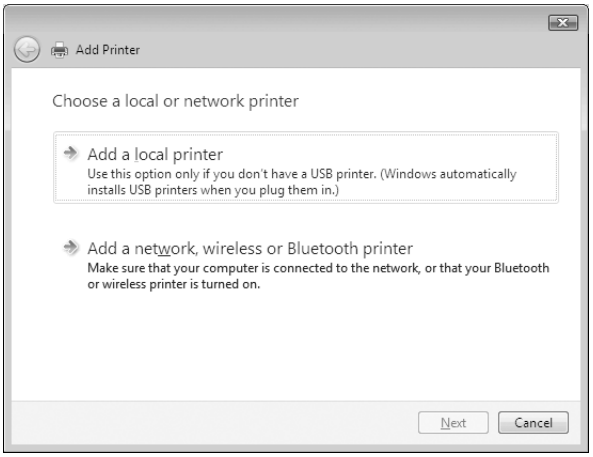
Windows Vista

For Windows Vista, the printer driver installation procedure differs depending on the printing method you prefer. Epson recommends printing with EpsonNet Print. See "For Windows Vista/XP/Server 2003/2000" on page 41.

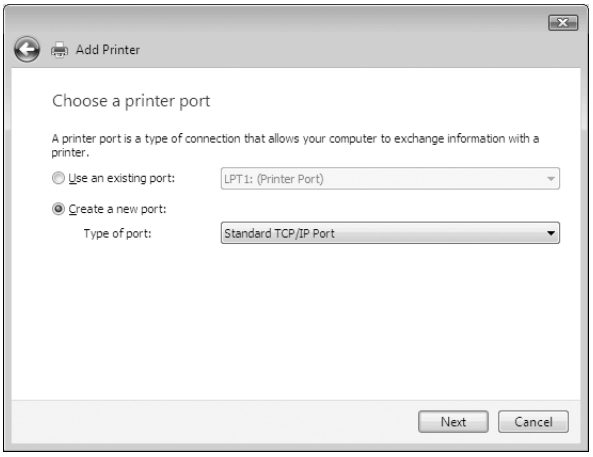
LPR printing

If you are using EpsonNet Print, the setup procedure is different. See "About EpsonNet Print" on page 39 for details.

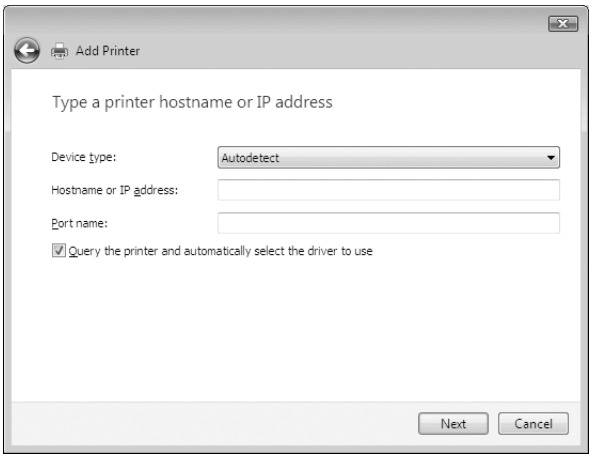
1. Click **Start**, **Control Panel**, and then **Printer**.
2. Click **Add a printer** to start the Add Printer wizard.
3. Click **Add a local printer**.



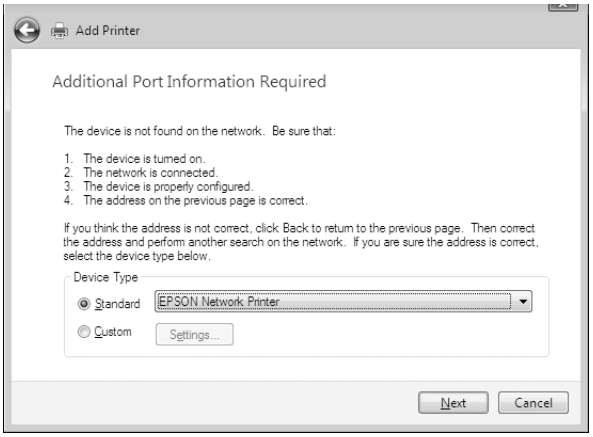
4. Select the **Create a new port** radio button, and then select **Standard TCP/IP Port** from the list. Then click **Next**.



5. Enter the IP address of the network interface and then click **Next**. If you don't know the IP address, you can print a network status sheet. See "Printing a Network Status Sheet" on page 51.



6. If an error occurs, the following dialog box appears. Select the **Standard** radio button and then select **EPSON Network Printer**. Click **Next**.



7. Click **Finish**.

8. See the following section to install the printer driver.

Installing the printer driver

1. Insert the Software CD-ROM shipped with the printer.

2. Close the Software Installation screen if it appears.

3. Go to My Computer or Computer and right-click the CD drive icon to view its contents.

4. Double-click the **COMMON\PRINTER** folder and open the appripriate folder for your operating system (**WINVISTA_XP_2K**, or **WINVISTA_XP**) folder. Click **Open**.

5. Select the model name of the printer, and then click **Next**.

   *If the Add Printer wizard prompts you to select either **Keep existing driver** or **Replace existing driver**, be sure to select the **Replace existing driver** radio button.*

6. Click **Finish** and follow the on-screen instructions to complete the setup.

Windows XP

For Windows XP, the printer driver installation procedure differs depending on the printing method you prefer. Epson recommends printing with EpsonNet Print. See "For Windows Vista/XP/Server 2003/2000" on page 41.

LPR printing

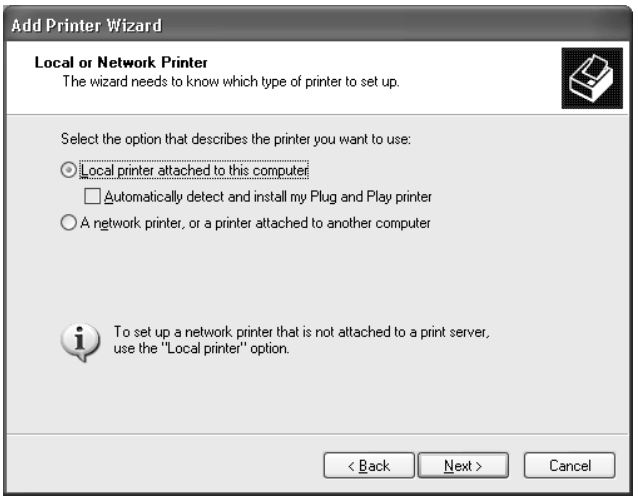
If you are using EpsonNet Print, the setup procedure is different. See "About EpsonNet Print" on page 39 for details.

1. Click **Start**, click **Control Panel**, click **Printers and Other Hardware**, and then click **Printers and Faxes**.

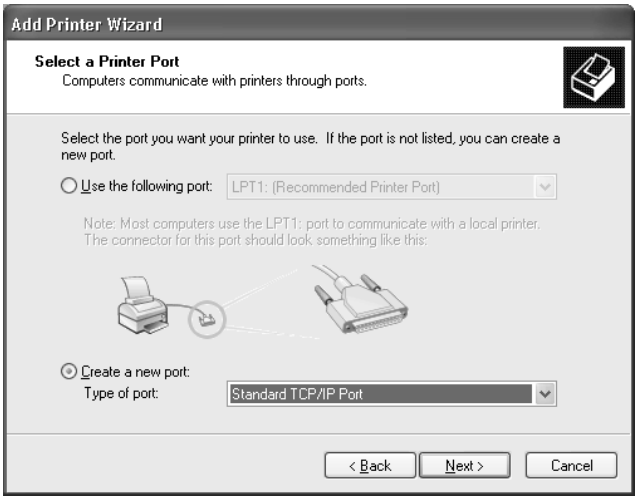
2. Under **Printer Tasks**, click **Add a printer** to start the Add Printer wizard, and then click **Next**.

3. Click **Local printer attached to this computer**, clear the **Automatically detect and install my Plug and Play printer** check box, and then click **Next**.

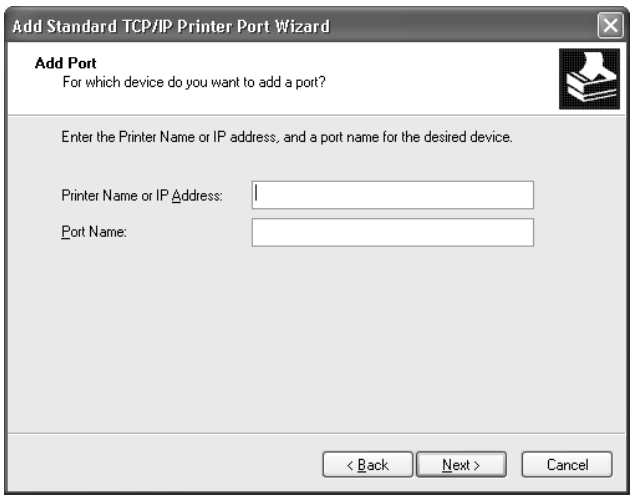
   *You must clear the **Automatically detect and install my Plug and Play printer** check box because the printer is attached directly to the network, not to a Windows XP computer.*



4. Select the **Create a new port** radio button, and then select **Standard TCP/IP Port** from the list. Then click **Next**.



5. Enter the IP address of the network interface and then click **Next**. If you don't know the IP address, you can print a network status sheet. See "Printing a Network Status Sheet" on page 51.



6. If an error occurs, the following dialog box appears. Select the **Standard** radio button and then select **EPSON Network Printer**. Click **Next**.

7. Click **Finish**.

8. See the following section to install the printer driver.

Installing the printer driver

1. Insert the Software CD-ROM shipped with the printer.

2. Close the Software Installation screen if it appears.

3. Go to My Computer or Computer and right-click the CD drive icon to view its contents.

4. Double-click the **COMMON\PRINTER** folder and open the appripriate folder for your operating system (**WINVISTA_XP_2K**, or **WINVISTA_XP**) folder. Click **Open**.

5. Select the model name of the printer, and then click **Next**.

   *If the Add Printer wizard prompts you to select either **Keep existing driver** or **Replace existing driver**, be sure to select the **Replace existing driver** radio button.*

6. Click **Finish** and follow the on-screen instructions to complete the setup.

Windows Server 2003

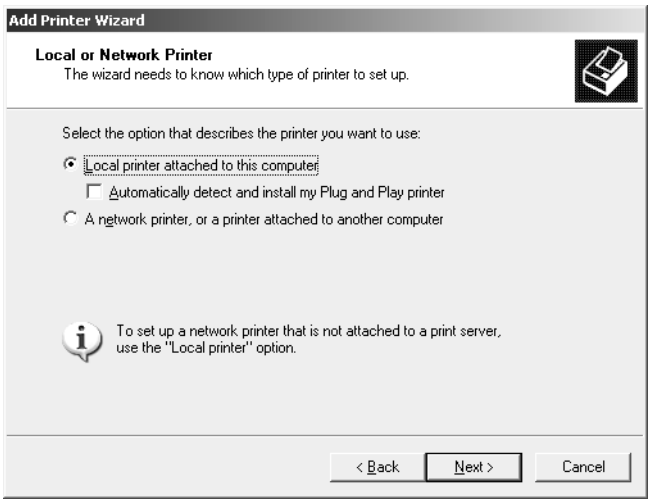
For Windows Server 2003, the printer driver installation procedure differs depending on the printing method you prefer. Epson recommends printing with EpsonNet Print. See “For Windows Vista/XP/Server 2003/2000” on page 41.

LPR printing

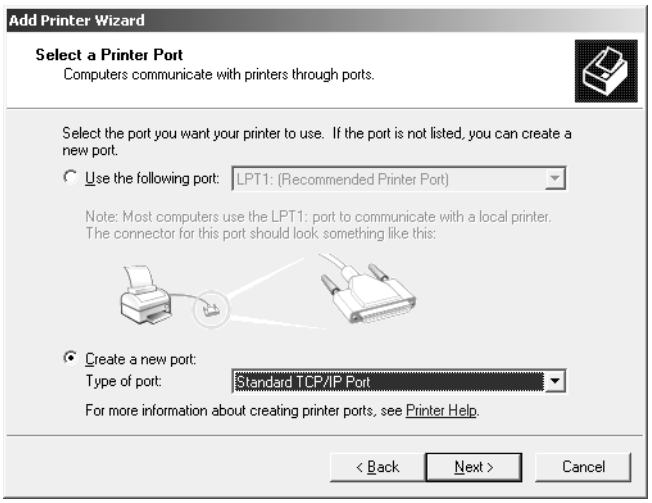
If you are using EpsonNet Print, the setup procedure is different. See “About EpsonNet Print” on page 39 for details.

1. Click **Start**, and then select **Printers and Faxes**.
2. Double-click the **Add Printer** icon to start the Add Printer wizard, and then click **Next**.
3. Click **Local printer attached to this computer**, clear the **Automatically detect and install my Plug and Play printer** check box, and then click **Next**.

*You must clear the **Automatically detect and install my Plug and Play printer** check box because the printer is attached directly to the network, not to a computer.*

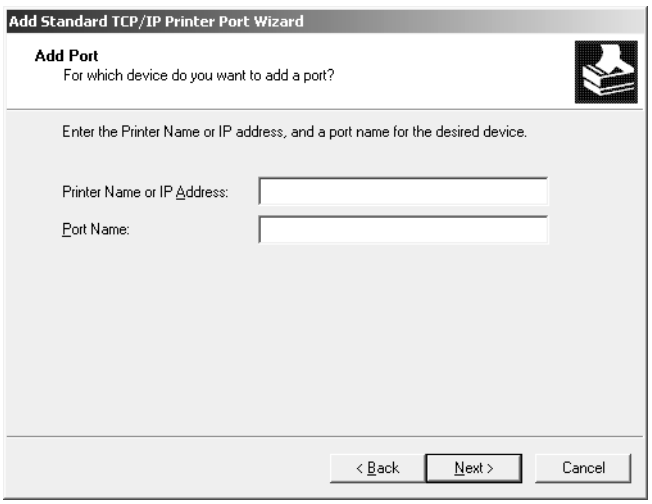


4. Select the **Create a new port** radio button, and then select **Standard TCP/IP Port** from the list. Click **Next**.

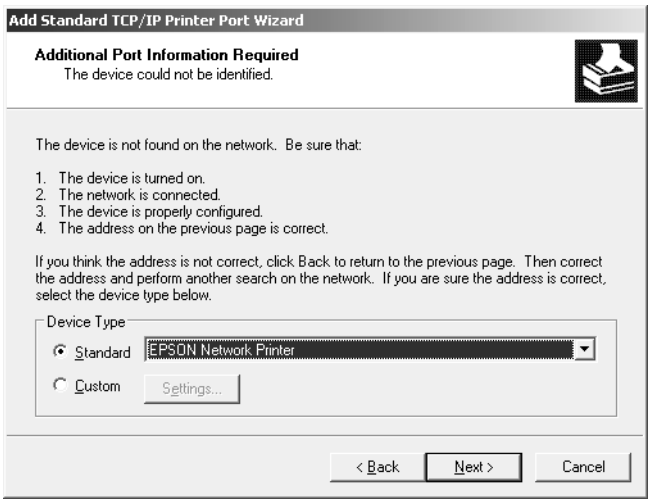


5. When Add Standard TCP/IP Printer Port Wizard dialog box appears, click **Next**.

6. Enter the IP address of the network interface and then click **Next**. If you don't know the IP address, you can print a network status sheet. See "Printing a Network Status Sheet" on page 51.



7. If an error occurs, the following dialog box appears. Select the **Standard** radio button and then select **EPSON Network Printer**. Click **Next**.



8. Click **Finish**.

9. See the following section to install the printer driver.

Installing the printer driver

1. Insert the Software CD-ROM shipped with the printer.

2. Close the Software Installation screen if it appears.

3. Go to My Computer or Computer and right-click the CD drive icon to view its contents.

4. Double-click the **COMMON\PRINTER** folder and open the appripriate folder for your operating system (**WINVISTA_XP_2K**, or **WINVISTA_XP**) folder. Click **Open**.

5. Select the model name of the printer, and then click **Next**.

   *If the Add Printer wizard prompts you to select either **Keep existing driver** or **Replace existing driver**, be sure to select the **Replace existing driver** radio button.*

6. Click **Finish** and then follow the on-screen instructions to complete the setup.

Windows 2000

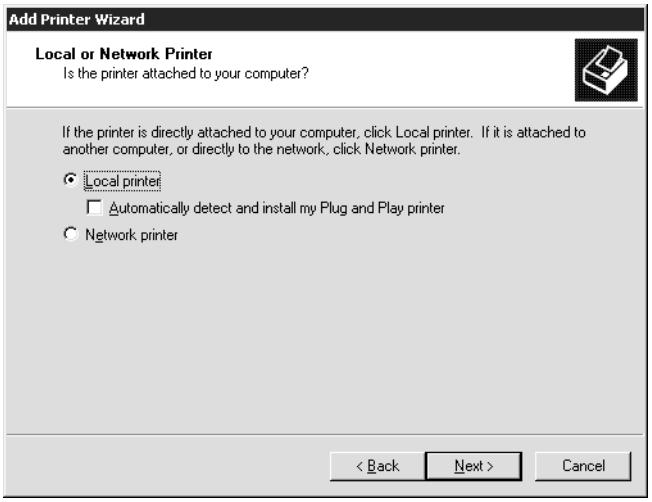
For Windows 2000, the printer driver installation procedure differs depending on the printing method you prefer. Epson recommends printing with EpsonNet Print. See "For Windows Vista/XP/Server 2003/2000" on page 41.

LPR printing

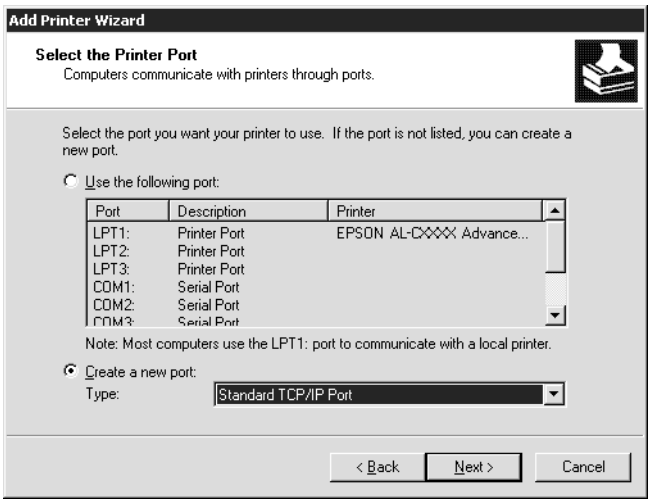
If you are using EpsonNet Print, the setup procedure is different. See "About EpsonNet Print" on page 39 for details.

1. Click **Start**, point to **Settings**, and then select **Printers**.
2. Double-click **Add Printer** to start the Add Printer wizard, and then click **Next**.
3. Click **Local printer**, clear the **Automatically detect and install my Plug and Play printer** check box, and then click **Next**.

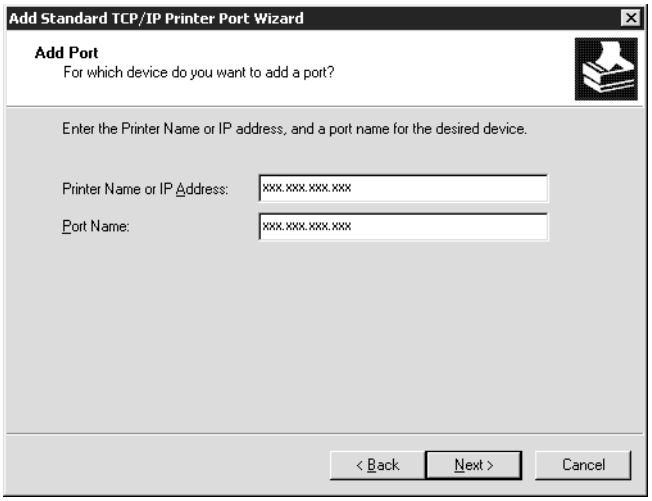
*You must clear the **Automatically detect and install my Plug and Play printer** check box because the printer is attached directly to the network, not to a Windows 2000 computer.*



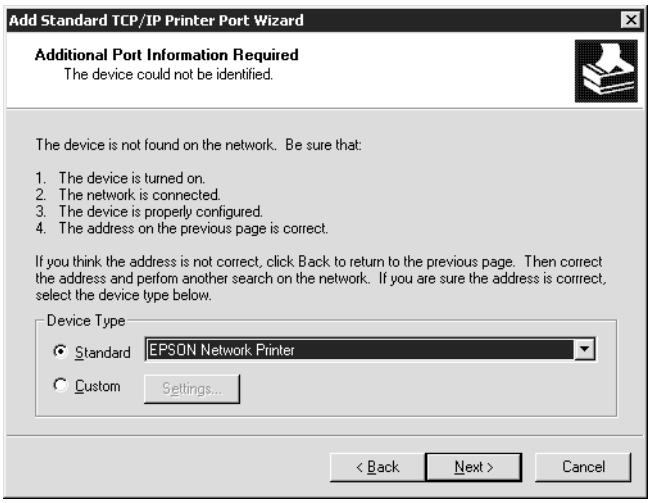
4. Select the **Create a new port** radio button, and then select **Standard TCP/IP Port** from the list. Then click **Next**.



5. Enter the IP address of the network interface and then click **Next**. If you don't know the IP address, you can print a network status sheet. See "Printing a Network Status Sheet" on page 51.



6. If an error occurs, the following dialog box appears. Select the **Standard** radio button and then select **EPSON Network Printer**. Click **Next**.



7. Click **Finish**.

8. See the following section to install the printer driver.

Installing the printer driver

1. Insert the Software CD-ROM shipped with the printer.

2. Close the Software Installation screen if it appears.

3. Go to My Computer or Computer and right-click the CD drive icon to view its contents.

4. Double-click the **COMMON\PRINTER** folder and open the appripriate folder for your operating system (**WINVISTA_XP_2K**, or **WINVISTA_XP**) folder. Click **Open**.

5. Select the model name of the printer, and then click **Next**.

   *If the Add Printer wizard prompts you to select either **Keep existing driver** or **Replace existing driver**, be sure to select the **Replace existing driver** radio button.*

6. Click **Finish** and follow the on-screen instructions to complete the setup.

Chapter 3

Network Software

This chapter explains how to use the network software provided with your printer.

The software provided varies depending on your printer model.

EpsonNet Config

About EpsonNet Config

EpsonNet Config is a Windows-based configuration software for administrators to configure the network interface for TCP/IP, MS Network, and SNMP.

Be sure to use EpsonNet Config included on the Software CD-ROM shipped with this product.

System Requirements

The following table lists the system requirements of EpsonNet Config.

Operating systems	Windows Vista Windows XP Professional/Home Edition Windows Server 2003 Windows 2000 Server/Professional
Hard disk drive space	49 MB

Installing EpsonNet Config

Follow the steps below to install EpsonNet Config on your computer to configure the network interface.

If you add or delete protocols or services from your operating system after installing EpsonNet Config, EpsonNet Config may not work correctly. If this happens, uninstall EpsonNet Config and then install it again.

1. Make sure all the applications are closed, then insert the Software CD-ROM in the CD-ROM drive.

2. The Software Installation screen opens automatically.

   If the Software Installation screen does not appear, double-click **EPSETUP.EXE** on the CD-ROM.

3. Click the **Install Network Utility** button.

4. Click the icon located next to EpsonNet Config.

5. Follow the on-screen instructions to complete the installation.

   *If the Windows Security Alert window appears after you start EpsonNet Config, click the **Unblock** button; otherwise the devices are not listed on the screen of EpsonNet Config.*

Accessing the EpsonNet Config User's Guide

The EpsonNet Config User's Guide contains detailed information on EpsonNet Config. Follow the steps below to access the EpsonNet Config User's Guide.

1. Click **Start**, point to **Programs** or **All Programs**, select **EpsonNet**, and then select **EpsonNet Config V2**. Click **EpsonNet Config** to start it.

2. From the Help menu, select **EpsonNet Config Help**.

   The EpsonNet Config User's Guide appears. By clicking the links on the left side of the screen, you can get information on using EpsonNet Config.

EpsonNet Print

About EpsonNet Print

EpsonNet Print is a utility program that provides peer to peer printing to Epson printers on the TCP/IP network.

By using EpsonNet Print, you can find a printer located in the same segment or beyond a router. You can select LPR standard printing, LPR enhanced printing, or High-speed printing.

System Requirements

The following table lists the system requirements of EpsonNet Print.

Operating systems	Windows Vista Windows XP Home Edition/Professional (with Service Pack 1 or higher) Windows Server 2003 Windows 2000 (with Service Pack 4 or higher)
CPU	Pentium® II 400 MHz or better recommended
Memory	64 MB or more
Hard disk space	20 MB or more
Display	800 × 600 screen resolution, 256 color or more

Installing EpsonNet Print

Follow the steps below to install EpsonNet Print. Be sure to install it on a computer connected to the network.

If EpsonNet Direct Print (the older version of EpsonNet Print) is already installed on your computer, you need to uninstall it before installing EpsonNet Print (the installation program will lead you through uninstalling EpsonNet Direct Print 2).

1. Make sure all the applications are closed, then insert the Software CD-ROM in the CD-ROM drive.

2. The Software Installation screen opens automatically.

   If the Software Installation screen does not appear, double-click **EPSETUP.EXE** on the CD-ROM.

3. Click the **Install Network Utility** button.

4. Click the icon located next to EpsonNet Print.

5. Follow the on-screen instructions to complete the installation.

Your computer is now set up to print using LPR via EpsonNet Print. See the next section to set up your printer.

For Windows Vista/XP/Server 2003/2000

Follow the steps below to add a port using the Add Printer Wizard.

- ❏ If you want to add a port for a printer with its IP address assigned automatically by the DHCP server or router, see "Adding a port for a printer assigned with a dynamic IP address," below.
- ❏ If you want to add a port for a printer with its IP address assigned manually, see "Adding a port for a printer assigned with a static IP address" on page 44.

- ❏ *Be sure that the computer is connected to the network and TCP/IP is correctly set up.*
- ❏ *Be sure that the target Epson printer driver is installed on the computer.*
- ❏ *A valid IP address must be assigned to the printer.*

Adding a port for a printer assigned with a dynamic IP address

1. **For Windows Vista:** Click **Start**, **Control Panel**, and then **Printer**. Click **Add a printer** to start the Add Printer wizard.

   For Windows XP: Click **Start** and then **Printers and Faxes**. Under Printer Tasks, click **Add a printer** to start the Add Printer Wizard. Click **Next**.

   For Windows Server 2003: Click **Start** and then **Printers and Faxes**. Double-click **Add Printer** in the Printers folder to start the Add Printer Wizard. Click **Next**.

   For Windows 2000: Click **Start**, point to **Settings**, and then select **Printers**. Double-click **Add Printer** in the Printers folder to start the Add Printer Wizard. Click **Next**.

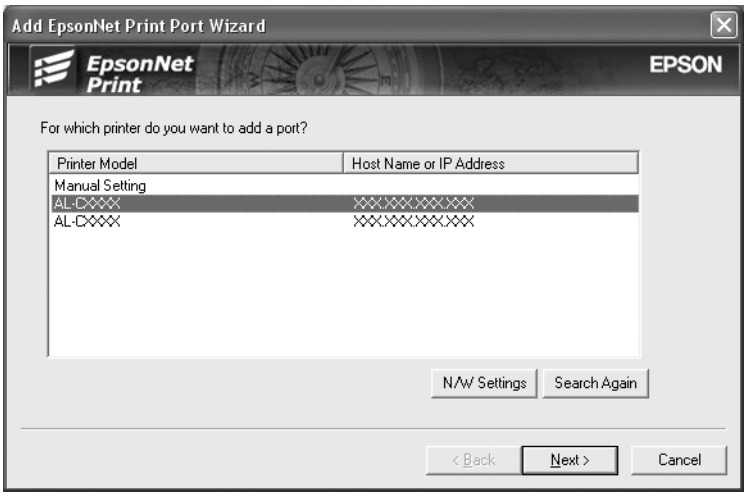
2. **For Windows Vista:** Click **Add a local printer**. Select the **Create a new port** radio button, and then select **EpsonNet Print Port** from the list. Click **Next**.

   For Windows XP/Server 2003: Click **Local printer attached to this computer**, clear the **Automatically detect and install my Plug and Play printer** check box, and then click **Next**. Select the **Create a new port** radio button, and then select **EpsonNet Print Port** from the list. Click **Next**.

*If the following screen appears, click the **Unblock** button, and then click the **Search Again** button to search the printers.*

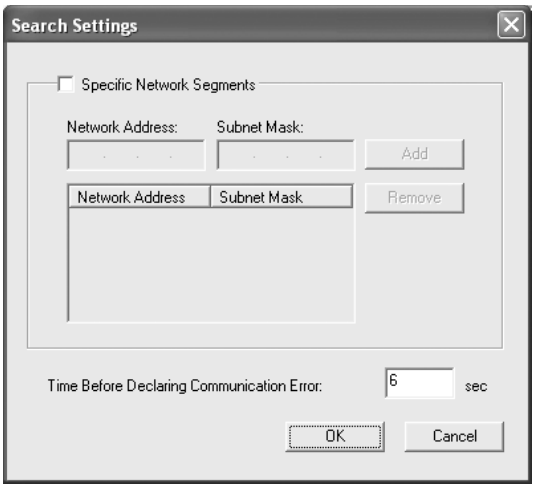
For Windows 2000: Click **Local printer**, clear the **Automatically detect and install my Plug and Play printer** check box, and then click **Next**. Select the **Create a new port** radio button, and then select **EpsonNet Print Port** from the list. Click **Next**.

3. Select the target printer, and then click **Next**.

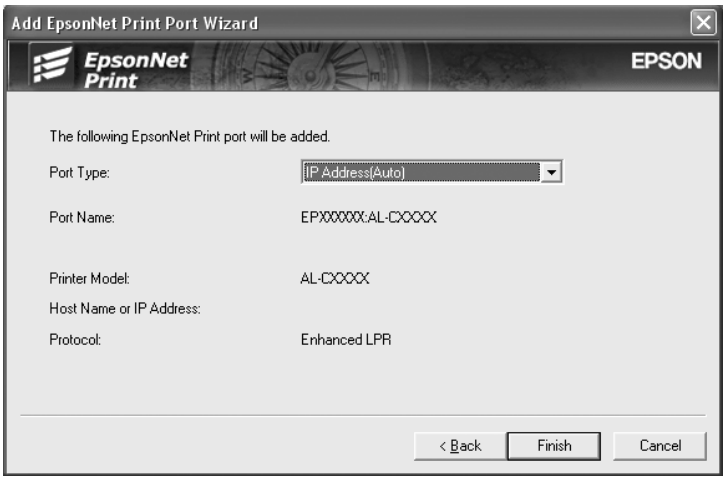


❏ *If the target printer is not in the list, click the **Search Again** button to search the printers using new parameters.*

❑ *If you want to search printers in other segments, click the* ***N/W Settings*** *button. Select the* ***Specific Network Segments*** *check box, and then enter the network address and subnet mask of the network segment for the search. Then click the* ***Add*** *button. You can also specify the time before declaring communication error.*



4. Confirm the information about the printer's port you want to configure, and then click **Finish**.



Items	Explanations
Port Type	The following items are listed in the pull-down menu, and you can select the port type you need. **IP Address (Auto):** Configure the port automatically. If the IP address of the printer is acquired automatically and the computer and the printer are in the same segment, you can select this port type. **IP Address (Manual):** Use the printer's IP Address for the port name. **HostName (DNS):** Use the printer's host name registered in the DNS server for the port name. **MS Network:** Use the NetBIOS name registered in the printer for the port name.
The port Information	The following items are displayed: - Port Name (If the port type is changed, the port name and the host name or IP address are also changed.) - Printer Model - Host Name or IP Address - Protocol
Finish button	Register the port information to the system and close the Add EpsonNet Print Port Wizard.
Back button	Go back to the printer list window.
Cancel button	Close the Add EpsonNet Print Port Wizard.

You need to install the printer driver. See "Installing the Printer Driver" on page 46.

Adding a port for a printer assigned with a static IP address

1. **For Windows Vista:** Click **Start**, **Control Panel**, and then **Printer**. Click **Add a printer** to start the Add Printer wizard.

   For Windows XP: Click **Start** and then **Printers and Faxes**. Under Printer Tasks, click **Add a printer** to start the Add Printer Wizard. Click **Next**.

   For Windows Server 2003: Click **Start** and then **Printers and Faxes**. Double-click **Add Printer** in the Printers folder to start the Add Printer Wizard. Click **Next**.

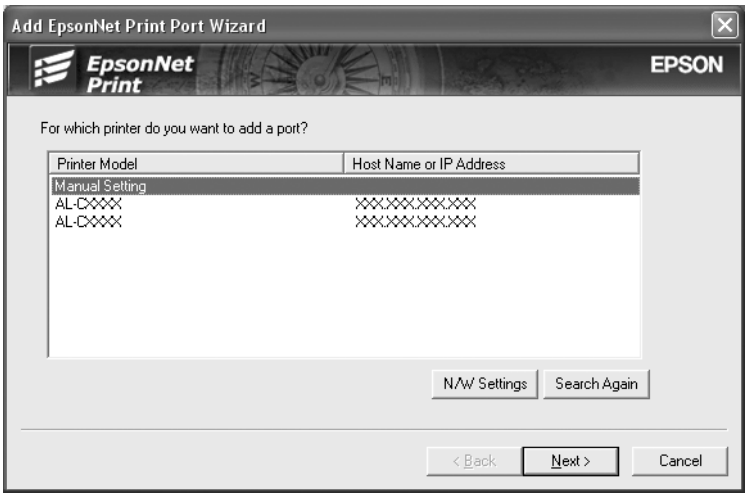
   For Windows 2000: Click **Start**, point to **Settings**, and then select **Printers**. Double-click **Add Printer** in the Printers folder to start the Add Printer Wizard. Click **Next**.

2. **For Windows Vista:** Click **Add a local printer**. Select the **Create a new port** radio button, and then select **EpsonNet Print Port** from the list. Click **Next**.

For Windows XP/Server 2003: Click **Local printer attached to this computer**, clear the **Automatically detect and install my Plug and Play printer** check box, and then click **Next**. Select the **Create a new port** radio button, and then select **EpsonNet Print Port** from the list. Click **Next**.

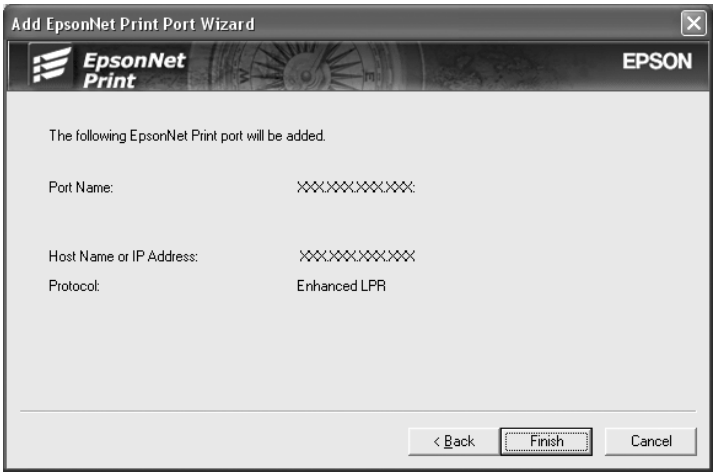
For Windows 2000: Click **Local printer**, clear the **Automatically detect and install my Plug and Play printer** check box, and then click **Next**. Select the **Create a new port** radio button, and then select **EpsonNet Print Port** from the list. Click **Next**.

3. Select **Manual Setting** from the list, and then click **Next**.



4. Enter the printer's name and the port name is automatically entered to the Port Name edit box. Then click **Next**.

5. Confirm the information about the printer's port you want to configure, and then click **Finish**.



Items	Explanations
The port Information	The following items are displayed: - Port Name - Host Name or IP Address - Protocol
Finish button	Register the port information to the system and close the Add EpsonNet Print Port Wizard.
Back button	Go back to the printer list window.
Cancel button	Close the Add EpsonNet Print Port Wizard.

You need to install the printer driver. See the next section for instructions.

Installing the Printer Driver

Install the printer driver that comes with your printer.

1. Insert the Software CD-ROM shipped with the printer.
2. Close the EPSON Installation Program screen if it appears.
3. Click the **Have Disk** button. The Install From Disk dialog box appears.
4. Click **Browse**.
5. Select the CD-ROM drive for Drives, and double-click the appropriate folder for your operating system. Click **OK**.

6. Click **OK** in the Install From Disk dialog box.

7. Select the model name of the printer, and then click **Next**.

   *If the Add Printer wizard asks you to select either **Keep existing driver** or **Replace existing driver**, be sure to select the **Replace existing driver** radio button. Click **Next**.*

8. Click **Finish** and follow the on-screen instructions to complete the setup.

The printer is now ready for peer-to-peer printing. To configure the printer port, see the next section.

Configuring the Printer Port

Follow the steps below to configure the printer port. The printing speed differs depending on your selection.

1. For Windows Vista:
   Click **Start**, **Control Panel**, and then **Printer**.

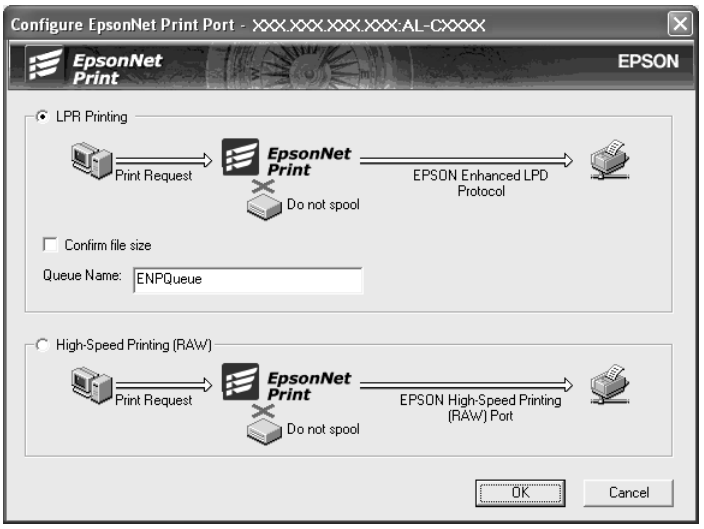
   For Windows XP/Server 2003:
   Click **Start** and then **Printers and Faxes**.

   For Windows 2000:
   Click **Start**, point to **Settings**, and then select **Printers**.

2. Right-click the target printer, and then click **Properties**.

3. For Windows Vista/XP/Server 2003/2000:
   Click the **Ports** tab, and then click the **Configure Port** button.

4. Make the appropriate settings for the desired port.



LPR enhanced printing:
Select the **LPR Printing** radio button, and then specify the queue name (up to 32 characters). LPR enhanced printing sends a print job to the target network printer without spooling all of the print data. LPR enhanced printing is faster than LPR standard printing.

LPR standard printing:
Select the **Confirm file size** check box, and then specify the queue name (up to 32 characters). Print data is spooled by the computer before being sent to the target network printer.

When the print data size is 20 MB or more, we recommend that you use LPR enhanced printing.

High-speed printing:
Select the **High-Speed Printing (RAW)** radio button. The Epson high-speed printing port sends a print job to the target network printer without spooling all of the print data. High-Speed printing is faster than the other two printing methods.

5. Click **OK**.

If you select the **High-Speed Printing (RAW)** radio button and if the printer does not support High-Speed printing, or if you fail to connect to the printer, an error message appears. Follow the message to remedy the problem.

Chapter 4

Troubleshooting

General Problems

Cannot configure the network interface or cannot print from the network.

Cause	What to do
The printer settings or network settings may be wrong.	First, check to see if you can print a status sheet, as described in "Printing a Network Status Sheet" on page 51. If you can print a status sheet, check the network settings; otherwise, set the interface mode of the printer's control panel to **Auto** or **Option**.

Cannot print even if you have assigned the IP address to the computer and the printer.

Cause	What to do
You have assigned an IP address to the computer manually, but you assigned the IP address to the printer by Automatic Private IP Addressing (APIPA).	Assign the printer's IP address so that it belongs to the same segment of the computer. Use EpsonNet Config and the printer's control panel.

Unable to start EpsonNet Config.

Cause	What to do
You have added or deleted protocols after installing EpsonNet Config.	Uninstall EpsonNet Config and then reinstall it. See "Uninstalling Software" on page 54 and "Installing EpsonNet Config" on page 38.

The message "EpsonNet Config cannot be used because no network is installed." appears when you start EpsonNet Config.

Cause	What to do
TCP/IP is not installed on the computer.	Install the TCP/IP protocol.
TCP/IP is installed on the computer, but its IP address is not set correctly.	Set a correct IP address for the computer.

The message "Could not complete communicating configuration data" appears when you send settings to the network interface.

Cause	What to do
This may happen when using a dial-up router.	Run Command Prompt from the computer on which EpsonNet Config is installed, and then enter the following command: Format: >ROUTE_ADD_the IP address of the network interface_ the IP address of the computer (the under bar represents one space) Example: >ROUTE ADD 192.168.192.168 22.33.44.55.

The Model Name and IP Address do not appear in the EpsonNet Config dialog box.

Cause	What to do
If the valid IP address is not set, the items indicated in the dialog box mentioned above may not appear.	Set a valid IP address. Refresh the status by selecting **Refresh** from the View menu. Increase the length of time before a timeout. To do this, select **Options** from the Tool menu, and then select **Timeout**. Note that doing so can cause EpsonNet Config to run more slowly.

Problems Specific to Your Network Environment

Windows 2000 Environment

A dial-up connection dialog box appears when printing with TCP/IP via EpsonNet Print.

Cause	What to do
You have selected a phone line or modem (for Internet Explorer 4.0x) for the Internet connection.	Printing ends normally after you cancel this dialog box, but the message appears every time you print. Connect to the Internet using a local area network or start a dial-up network manually.

Printing a Network Status Sheet

Before you start configuring the network interface, be sure to print a network status sheet that contains important information such as the current configuration and the MAC address of the network interface.

To print a network status sheet, follow the steps below.

1. Press the ▶ **Right** button on the printer's control panel once to enter the Menu mode.
2. Press the ▼ **Down** button until TEST PRINT appears on the LCD panel, then press **OK**.
3. Press the ▼ **Down** button until NETWORK SHEET appears.
4. Press the **OK** button.
5. Press the **OK** button again to print the network status sheet.

❏ *You cannot print a status sheet in the following cases: the printer has started printing, it is offline, or it is not ready to print.*

❏ *See the printer User's Guide for more information on the printer's control panel.*

Chapter 5

Tips for Administrators

Setting an IP Address on the Printer's Control Panel

After connecting the printer to the network, you need to set the IP address for the network interface.

To set the IP address, subnet mask, and default gateway from the control panel, follow the steps below.

1. Turn on your printer.
2. Press the ▶ **Right** button on the printer's control panel once to enter the Menu mode.
3. Press the ▼ **Down** button until NETWORK SETTING appears.
4. Press the **OK** button, then press **OK** again to change the NETWORK SETUP. You can use the following methods to get an IP address.

   ❏ Choose AUTO when getting the IP address from a DHCP server. The IP address is automatically obtained from the DHCP server whenever the printer is reset or turned on.

   ❏ Choose PANEL when setting the IP address, subnet mask, and default gateway using the printer's control panel.

   *To use **Auto**, a DHCP server must be correctly configured on the network. See the online help of your operating system for detailed instructions.*

5. To set the IP address manually, press the **Up** or **Down** button until IP ADDRESS appears, then press the **OK** button.
6. Press the ◀ **Left** or ▶ **Right** button to move the cursor and the ▲ **Up** or ▼ **Down** button to change the number. Then press the **OK** button.

   Repeat steps 5 and 6 to set the IP address, subnet mask, and default gateway.

7. Press the 🗑 **Cancel** button to exit the Menu mode.
8. Turn off your printer and then turn it back on. Be sure to wait until the initialization is complete.

Print a network status sheet to confirm the new IP address.

See the User's Guide for more information about settings on the printer's control panel.

Network Menu

These items are used to make network settings on the printer's control panel.

Item	Settings
NETWORK SETUP	Panel, Auto, Init N/W set
IP ADDRESS	0.0.0.1 to 255.255.255.254
SUBNET MASK	0.0.0.0 to 255.255.255.255
DEFAULT GATEWAY	0.0.0.0 to 255.255.255.255

To activate the Network Menu settings, you must turn off the printer for more than five seconds and then turn it back on.

Universal Plug and Play

When you connect your printer to the network, an IP address is automatically assigned, and the printer's icon appears in the **My Network Places** folder.

Right-click the printer's icon in the **My Network Places** folder and select **Properties** to see information about the network interface.

To use this function, Universal Plug and Play must be installed.

Before using the Universal Plug and Play function, you must enable the Universal Plug and Play function in EpsonNet Config. See the EpsonNet Config User's Guide.

Uninstalling Software

Follow the steps below to uninstall the network software.

Windows Vista

1. Click **Start**, click **Control Panel**, and then click **Uninstall a program**.
2. Select the utility you want to uninstall, and then click the **Uninstall/Change** button.
3. Follow the on-screen instructions to complete uninstallation.

Windows 2000

1. Click **Start**, point to **Settings**, and then select **Control Panel**.
2. Double-click the **Add/Remove Programs** icon.
3. Select the utility you want to uninstall, and then click the **Change/Remove** button.
4. Follow the on-screen instructions to complete uninstallation.

Windows XP/Server 2003

1. Click **Start**, click **Control Panel**, and then click **Add or Remove Programs**.
2. Click the **Change or Remove Programs** icon.
3. Select the utility you want to uninstall, and then click the **Change/Remove** button.
4. Follow the on-screen instructions to complete uninstallation.

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